ARJUNA JEE 2023

Some Basic Concepts of Chemistry

DPP-02

1. Which has maximum number of oxygen atoms?
(1) 1 gm of O
(2) 1 gm of O_2
(3) 1 gm of O_3
(4) All have same no. of O-atoms

2. The number of oxygen atoms in 4.4 g of CO_2 is
(1) 6×10^{23} (2) 11×10^{23}
(3) 12×10^{23} (4) 1.2×10^{23}

3. Find the number of atoms present in 0.016 g of methane.
(1) 0.5 N_0 (2) 0.005 N_0
(3) N_0 (4) 1.6 N_0

4. The number of atoms present in 0.05g of water is
(1) 1.67×10^{23}
(2) 1.67×10^{22}
(3) 5.02×10^{21}
(4) 1.67×10^{21}

5. The number of molecules in 4.25 g of ammonia is
(1) 1.5×10^{23}
(2) 2.5×10^{23}
(3) 3.5×10^{23}
(4) 15×10^{23}

6. Which one of the following has maximum number of atoms?
(1) 16g of C (2) 20g of Na
(3) 45g of S (4) 15g of N

7. What is the mass of 0.5 moles of O_3 molecules?
(1) 16 gm (2) 20 gm
(3) 40 gm (4) 24 gm

8. Find mass of 18.066×10^{23} molecules of NH_3? (If atomic mass of N and H are 14 and 1)
(1) 51 g (2) 34 g
(3) 17 g (4) None of these

9. If the atomic mass of Sodium is 23, the number of moles in 46 g of sodium is:
(1) 1 (2) 2
(3) 2.3 (4) 4.6

10. Which of the following contains the largest mass of hydrogen atoms?
(1) 5.0 moles $C_2H_2O_4$
(2) 1.1 moles $C_3H_8O_3$
(3) 1.5 moles $C_6H_8O_6$
(4) 4.0 moles $C_2H_4O_2$

Answer Key

1. (4)
2. (4)
3. (2)
4. (3)
5. (1)
6. (3)
7. (4)
8. (1)
9. (2)
10. (4)

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